

## MSG 207A - RED FD14 VACUUM CLEANUP OF WSA

### SPACEHAB WSA CLEANUP IFM

(45 minutes)

**OBJECTIVE:** To inspect the WSA for excess water and if none evident put tape in place per Part A below as a measure of caution. If water is evident in the WSA it will be vacuumed up and the cover sealed for entry per Part B below.

- AD04,AD05
1. Remove pip pins, open and brace floor panels
  2. Inspect the holes of the WSA cover with a flashlight for evidence of visible water.

If water NOT visible:

Perform Part A, ALL

If water visible:

Perform Part B, ALL

#### Part A – No Visible Water

##### TOOLS REQD:

SS Stow 1 Gray Tape

- WSA Cover
1. Tape over all five holes and any gaps in area where tubing exits aft surface of WSA cover (Location of five holes are illustrated in Part B, Step 17, Figure 1)

- AD04,AD05
2. Close floor panels, replace pip pins
  3. Report results to MCC

#### Part B – Visible Water

##### TOOLS REQD:

ML60J DC Vacuum Cleaner Bag

SS Stow 1 Gray Tape

##### INHIBIT ARS FAN DP C&W

- R13U
1. C/W PARAM SEL tw - 0 8 5
  2. - INH
  3. STATUS - INH (hold)
  4.  $\sqrt{\text{STATUS}}$  It 085 - on
  5. PARAM SEL tw - 1 2 0
  6.  $\sqrt{\text{MCC}}$  has inhibited ARS FAN DP1,2 S/W C&W via TMBU

##### CONFIGURE SUBSYSTEM EQUIPMENT

On MCC GO:

SM 224 SHAB ECS

7. ARS FAN OFF - ITEM 1 EXEC (\*)
8. INV FWD - ITEM 4 EXEC (\*)
9. ON - ITEM 10 EXEC (\*)
10.  $\sqrt{\Delta P}$  1,2 (two) > 0.2 and < 6.0

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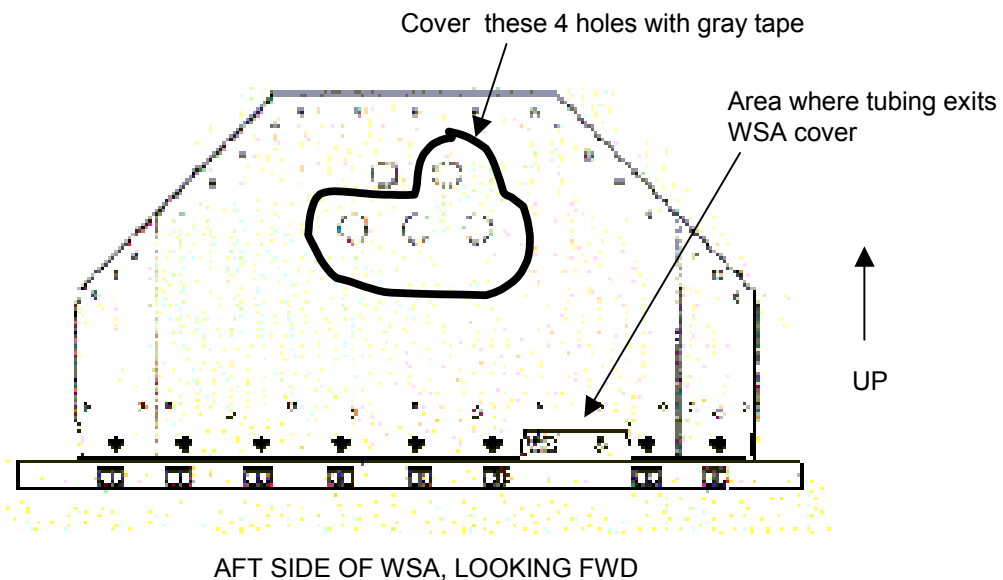
### SM 225 SHAB WATER LOOP

11. √WSA RS 1/2 OFF, ITEM 13 - (\*)
12. √SS WPP WP1 ON/2 OFF, ITEM 4 - (\*)
13. WSA RS SPD SEN ORB FWD - ITEM 21 EXEC (\*)

MA73C:E 14. cb AC3 PL 3 $\phi$  - op

### VACUUM EXCESS WATER

- ML60J 15. Unstow, assemble vacuum cleaner, suction hose, DC power cable, install new bag
16. Perform DC VACUUM CLEANER SETUP (RDM OPS, ON-ORBIT) steps 2-13
- WSA Cover 17. Tape over four of the five holes located on aft surface of WSA (Cover three bottom holes and top starboard hole per Figure 1)



**Figure 1**

### NOTE

DC Vac will fill with H<sub>2</sub>O after approximately 2 min or 24 ounces.

Three spare vac bags are located in DC Vac Stowage Bag.

Use a maximum of 2 vac bags for this procedure

18. Place vacuum hose over the uncovered hole and maintain vacuum for 2 minutes
19. Check vacuum bag for water by feel
20. If bag contains water, replace bag, temp stow used bag, and repeat vacuum procedure. Discontinue when two bags are used or when no indication of water
21. After completion of vacuum ops, tape over fifth hole on WSA cover and any gaps in area where tubing exits aft surface of WSA cover.

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- 1 22. Report results of vacuum ops to MCC  
2 23. Perform DC VACUUM CLEANER STOW (RDM OPS, ON-  
3 ORBIT)  
4 AD04,AD05 24. Close floor panels, replace pip pins  
5 25. Stow used bag(s) in Volume F  
6

7 NOTE

8 MCC will enable ARS FAN DP1,2 SW limits via TMBU  
9

10 ENABLE ARS FAN DP C&W

- 11 R13U 26. C/W PARAM SEL tw - 0 8 5  
12 27. - ENA  
13 28. STATUS - INH (hold)  
14 29. √STATUS lt 085 - off  
15 30. PARAM SEL tw - 1 2 0  
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